

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	208062	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/25 10:35
L2	685	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/25 10:35
L3	260	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/25 10:35
L4	374	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/25 10:35
L5	147447	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural parallel two)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/25 10:35
L6	24850	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/25 10:35
L7	40121	polarization near3 (axis axes direction)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/25 10:35
L8	2	(L2 L3 L4) and L5 and L6 and L1 and L7	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/25 10:35
S1	1	("20040105378").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/21 18:21
S2	770489	laser ((light beam) near2 (emitter element))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:36
S3	4018255	step level	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:30
S4	188412	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:30
S5	1041480	electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:30
S6	21374	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:31
S7	529	S6 near5 ((external outside) wire)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:31

## EAST Search History

S8	12	S2 and S3 and S4 and S7	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:38
S9	7	("20040075527"   "6115515"   "6215295"   "6256331"   "6257772"   "6282352"   "6467972").PN. OR ("6934448").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/17 16:11
S10	1285813	laser ((light beam) near2 (emit\$4 element diode)) LD LED	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:42
S11	17	S10 and S4 and S7	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:42
S12	683	S10 and S4 and S6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:43
S13	129861	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural parallel two)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 14:37
S14	177	S13 and S4 and S6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:48
S15	956949	fiber waveguide	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:44
S16	83	S14 and S15	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:45
S17	42816	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/08/17 17:44
S18	7	S14 and S17	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 17:45
S19	19	("5671315"   "5896481"   "6141471").PN. OR ("6257772"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/21 10:55
S20	2211	(385/88).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/06 13:40
S21	924	(385/89).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/06 13:40
S22	3040	(385/14).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/06 13:40
S23	21541	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 13:42

## EAST Search History

S24	1293347	laser ((light beam) near2 (emit\$4 element diode)) LD LED	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 13:42
S25	4038613	step level	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 13:43
S26	6079971	plual\$5 dual several many two three four	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 14:36
S27	157192	S26 near5 S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 14:37
S28	183829	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural\$5 parallel two three four)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 15:47
S29	35727	polarization near3 (axis axes direction)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 14:40
S30	189299	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 15:47
S31	11	S28 and S25 and S23 and S30 and S29	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 15:49
S32	43007	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/09/06 16:57
S33	40710	("385").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/09/06 16:57
S34	318	(S32 S33) and (S28 same S29)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 16:58
S35	241	(S32 S20 S21 S22) and (S28 same S29)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 16:58
S36	14	(S20 S21 S22) and (S28 same S29)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/06 16:58
S37	1	("6985424").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/14 15:29
S38	653	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 15:11
S39	248	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 15:11
S40	357	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 15:12

## EAST Search History

S41	131245	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural parallel two)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/20 15:12
S42	21653	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/20 15:12
S43	189935	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/20 15:12
S44	35895	polarization near3 (axis axes direction)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/20 15:14
S45	2	(S38 S39 S40) and S41 and S42 and S43 and S44	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/20 15:14
S46	3872378	hole gap opening cavity	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/22 12:54
S47	190123	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/22 12:54
S48	24211	S46 same S47	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/22 12:55
S49	655	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 12:55
S50	248	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 12:55
S51	357	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 12:55
S52	89	(S49 S50 S51) and (S46 same S47)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/22 12:55
S53	67	(S49 S50 S51) and (S46 with S47)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/22 12:55
S54	4018591	hole gap opening cavity	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:55
S55	198883	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:55

## EAST Search History

S56	666	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/19 12:55
S57	254	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/19 12:55
S58	368	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/19 12:55
S59	69	(S56 S57 S58) and (S54 with S55)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:55
S63	139203	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural parallel two)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:56
S64	23158	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:56
S66	38012	polarization near3 (axis axes direction)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 12:56
S69	2	(S56 S57 S58) and S63 and S64 and S55 and S66	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/19 13:03
S70	199013	photodetector\$2 (photo adj2 (detect\$4 sens\$4)) ((photo light) near3 (sens\$3 receiv\$3 detect\$4) near3 diode) photodiode\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:00
S71	667	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/20 13:00
S72	254	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/20 13:00
S73	368	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/03/20 13:00
S74	139315	(laser ((light beam) near2 (emit\$4 element diode)) LD LED) near3 (multiple many several dual plural parallel two)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:03
S75	23176	thin near2 film near2 electrode	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:00
S76	38038	polarization near3 (axis axes direction)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:00
S77	2	(S71 S72 S73) and S74 and S75 and S70 and S76	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:00

## EAST Search History

S78	4020276	hole gap opening cavity	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:01
S79	69	(S71 S72 S73) and (S78 with S70)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:01
S80	458022	((("90" nintey ninty) near2 degrees) (right near2 angle)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:28
S81	18950	prism same (reflect\$4 and transmi\$8)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:13
S82	2024	S74 and S80 and S81	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:04
S83	36	(S71 S72 S73) and S74 and S80 and S81	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:14
S84	19083	(prism (beam near divert\$5)) same (reflect\$4 and transmi\$8)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:28
S85	36	(S71 S72 S73) and S74 and S80 and S84	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:14
S86	42876	("385").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/03/20 13:14
S87	157	(S71 S72 S73 S86) and S74 and S80 and S84	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:15
S88	121	S87 not S85	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 13:15
S89	1570515	substrate	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:26
S90	3489953	pedestal step ((higher raised lower\$2) near3 (area region surface))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:27
S91	20849	(prism (beam near (divert\$5 deflect\$4))) same (reflect\$4 and transmi\$8)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:28
S92	1335524	((("90" nintey ninty) near2 degrees) (right near2 angle) orthogonal perpendicular	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:29
S93	131	(S89 same S90) and (S74 same S92) and S91	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/03/20 14:31

## EAST Search History

S94	1	("5987404").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/21 18:21
S95	1	("5978404").PN.	US-PGPUB; USPAT	OR	OFF	2007/03/21 18:21
S96	684	(369/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/24 16:36
S97	260	(369/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/24 16:37
S98	373	(369/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/24 16:37
S99	1	("6778486").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/24 17:05
S10 0	3	(S96 S97 S98) and ((prism (redirect\$6 near2 (element solid))) with corner)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/24 17:07
S10 1	34	(S96 S97 S98) and ((prism (redirect\$6 near2 (element solid))) with (corner edge))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/24 17:07